

**SECTION 13770
VIDEO SURVEILLANCE SYSTEM**

PART 2 PRODUCTS

2.02 SYSTEM SPECIFICATIONS

A. General

The Contractor shall furnish all material and labor for a complete and operative Video Surveillance System including documentation, programming, and training.

B. Manufacturers

IPIX Corporation
Reston Executive Center
12120 Sunset Hills Road, Suite 410
Reston, VA 20190
(888) 909-4749 toll free
(703) 674-4100 phone
(703) 674-4101 fax
security@ipix.com

C. Product Specifications

1. Camera Assemblies

The camera shall be a high performance, high resolution, fixed field of view camera for the most demanding IP-surveillance applications. The camera shall provide 1600x1200 resolution video and features cropping and spot metering. It shall be fitted with a standard 1/2 inch CS mount commercial-off-the-shelf lens that provides a field-of-view in accordance with the user's requirements; is capable of generating high quality, high resolution images at full motion frame rates that range from 15 frames per second to 48 frames per second; can automatically send streaming video over the network in one of three video streaming protocols; HTTP, RTP and RTSP, and is offered in either a ceiling-mount or wall-mount version.

a. General

- 1) Interface: Built in web server
- 2) Motion Detection: Programmable Video Motion Detection
- 3) Alarm Inputs & Outputs: Programmable Ports

b. Operational

- 1) Imager: 2 Megapixel sensor
- 2) Active Pixel Count: 1,600 (horizontal) X 1,200 (vertical) pixels
- 3) Dynamic Range: 60 dB
- 4) Auto Recovery: Embedded watchdog
- 5) Luminance: Less than 1 lux

c. Image

- 1) Format: JPEG still images and Motion JPEG video
- 2) Compression: High Speed hardware-based image compression
- 3) Resolution:

Resolution	Compression		
	Low	Medium	High
1600 x 1200	8 fps (185 KB)	17 fps (90 KB)	17 fps (61KB)
1280 x 960	13 fps (120KB)	25 fps (60KB)	30 fps (40KB)
640 x 480	30 fps (30KB)	30 fps (15KB)	30 fps (10KB)

- d. Data Network
 - 1) Connectivity: Single connection, 10/100BaseT, copper or multimode ST fiber
 - e. Supported Protocols
 - 1) Standards: TCP/IP, HTTP, FTP, RTP/RTSP, DHCP
 - f. Security
 - 1) Access: Password/username protection for restricted camera access
 - g. Electrical
 - 1) AC Voltage: 24VAC +/- 10%
 - 2) DC Voltage: 12VDC +/- 10%
 - 3) Maximum Current: 4 Watts
 - h. Mechanical
 - 1) Lens Mount: CS type Megapixel lens shall be included
 - 2) Unit Weight: Nine Tenths (0.9) of a pound
 - i. Environmental
 - 1) Operating Temperature: 0 to 45 Degrees Celsius
 - 2) Storage Temperature: 40 to 70 Degrees Celsius
 - 3) Humidity: 0% to 90% relative, non-condensing
 - j. Regulatory
 - 1) Emissions: FCC: Part 15, Class B
 - 2) Certification: CE
 - 3) Safety: UL Listed
 - k. Connectors
 - 1) Input Power: Terminal
 - 2) Network: RJ-45
 - 3) Alarm Input: AWG 18 to 28 Terminal
 - 4) Alarm Output: AWG 18 to 28 Terminal
2. Camera Mounts

The mounts shall be compatible with the camera and suitable for the application.

3. Auxiliary Power Supplies
- All fixed cameras may be powered through a local power source. PTZ cameras shall need a separate power supply for heaters, blowers, and wireless interface equipment if needed. The power supply shall be of the appropriate voltage and current rating for each location's needs. The power supply shall be manufactured by Altronix and include surge suppression and lightning protection.
4. Video Transmission Systems
- All video transmission shall be over a separate security Ethernet network unless bandwidth is available on [OWNER]'s existing network and approved for use by the IT Department.
5. Wiring
- All wiring will be via the Ethernet network except for the power wiring to cameras. Power wiring shall be size according to the distance between the power source and the camera. The voltage drop at the camera shall not be more than five percent (5%) of the supply voltage at the source.